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## PATENT ABSTRACTS OF JAPAN

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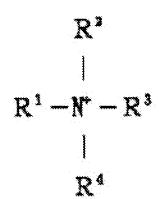
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## (54) ORGANIC CLAY COMPLEX CONTAINING MELAMINE RESIN AND AQUEOUS COATING MATERIAL COMPOSITION CONTAINING THE SAME

## (57)Abstract:

PROBLEM TO BE SOLVED: To obtain an organic clay complex containing a melamine resin aiming at the improvement of the dispersibility in an aqueous medium and the improvement in waterproofness of the obtained coated membrane by using the same as a viscosity increasing agent for an aqueous coating material by introducing a quaternary ammonium ion and a melamine resin between the layers of swelling layered silicic acid salt.

SOLUTION: This organic clay complex containing a melamine resin is obtained by introducing (B) a quaternary ammonium ion commonly available as an organic bentonite and expressed by formula I [R1 to R4 are each H, a 1-24C alkyl or an aralkyl, one of R1 to R4



is a ≥6C alkyl) between the layers of (A) a swelling layered silicic acid compound such as a natural or a synthesized smectite-based clay mineral, a swelling mica, a vermiculite, etc., having ≥10meg per 100g exchanging capacity and containing ≤30wt.% non clay impurities, by Searching PAJ Page 2 of 2

an ion exchange to obtain an organic clay complex material, then swelling the complex by contacting with an organic solvent and again introducing (C) a hydrophobic melamine resin soluble to an organic solvent, preferably having ≥1 triazine rings, and dissolved in the organic solvent.